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Let x = time the comet is within the earth's orbit;

$$\text{then } 2\pi \sqrt{\frac{a^3}{\mu}} : \frac{4}{3} \sqrt{\frac{a^3}{\mu}} = 1 \text{ year} : x. \quad \therefore x = \left(\frac{2}{3\pi}\right)^{2/3} \text{ part of a year}$$

$$= \frac{2}{3\pi} \times 365\frac{1}{4} \text{ days} = 77.208 + \text{days.}$$

PROBLEMS.

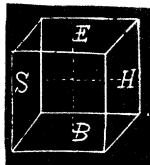
20. Proposed by SAMUEL HART WRIGHT, M. D., M. A., Ph. D., Penn Yan, Yates County, New York.

When does The Dog-Star and the Sun rise together in Latitude $42^{\circ} 30'$ North = λ ? Given the R. A. of Sirius = 6 h. 40 m. 30 sec. and its Dec. = $16^{\circ} 33' 56''$ S.

21. Proposed by J. K. ELLWOOD, A. M., Principal of Colfax School, Pittsburg, Pennsylvania.

Solve (if possible) the following: A cube whose edge is a feet revolves on both axes— EB and SH —at the same number of revolutions per minute.

What is the volume of the figure generated, (a) when the center of the cube remains in one place, (b) when the center of the cube moves b feet in a straight line in a minute?



QUERIES AND INFORMATION

Conducted by J. M. COLAW, Monterey, Va. All contributions to this department should be sent to him.

Notes on Counsellor Dolman's Remarks In April Number.

By Professor John N. Lyle.

[Received May, 1894.]

Says Counsellor Dolman—"According to Lobatschewsky the angle-sum of a rectilinear triangle decreases as the area of the triangle increases, but is always less than two right angles."

What is a *rectilinear* triangle? The answer is, one whose sides are straight lines. "A triangle can be formed of three straight lines joining any three points." As three points determine the position of a plane, the surface of a rectilinear triangle is a plane.